Book Store

IIHT

Time To Complete: 2 hr

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1 Project Abstract

In the rapidly advancing digital age, the demand for convenient and accessible platforms for purchasing books has significantly increased. With the vision of creating an innovative and user-friendly Book Store Management System, the CEO of a budding e-commerce startup, Mr. X, assigns a team of developers to develop a Book Store application using React.

This application aims to provide a user-friendly and efficient platform for both book buyers and store administrators, enhancing the overall book shopping and management experience.

Your task is to develop a comprehensive digital solution that enables users to effortlessly browse through a variety of books, add their desired books to a cart, and place orders with ease. Additionally, the platform will include an admin interface where administrators can manage users, books, and orders efficiently.

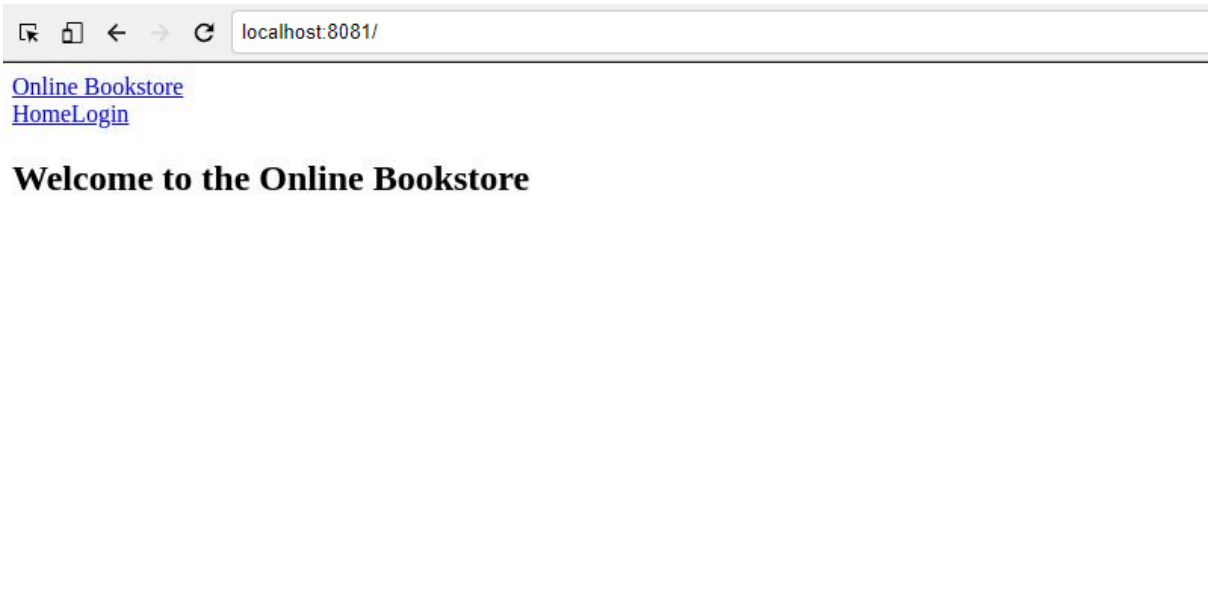
2 Problem Statement

The "**Book Store App**" is a Single Page Application (SPA) designed to enhance the online book shopping experience. This system allows users to browse and search for books, add books to their cart, and place orders seamlessly. It also provides an admin interface for managing users, books, and orders.

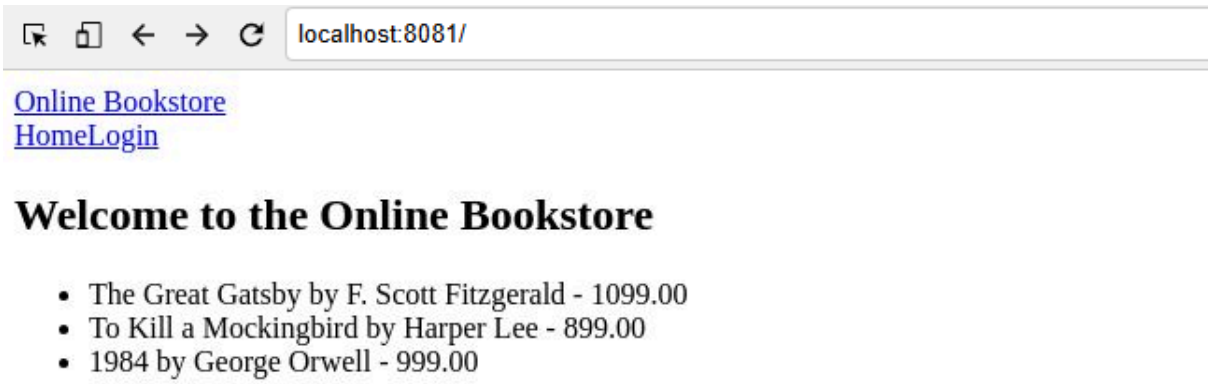
3 Proposed Book Store Wireframe

UI needs improvisation and modification as per given use case and to make test cases passed.

3.1 Welcome Page

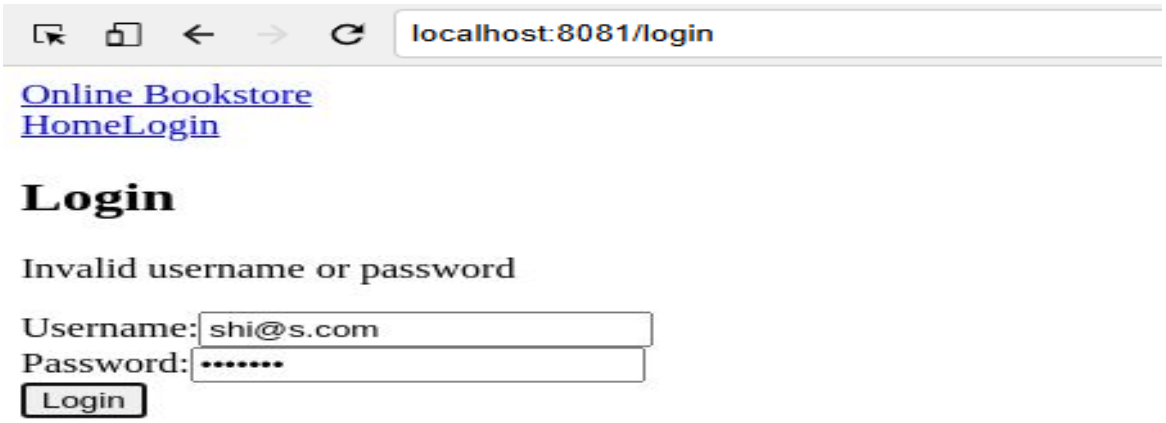


Already added three books with their details



***** Login Page*****

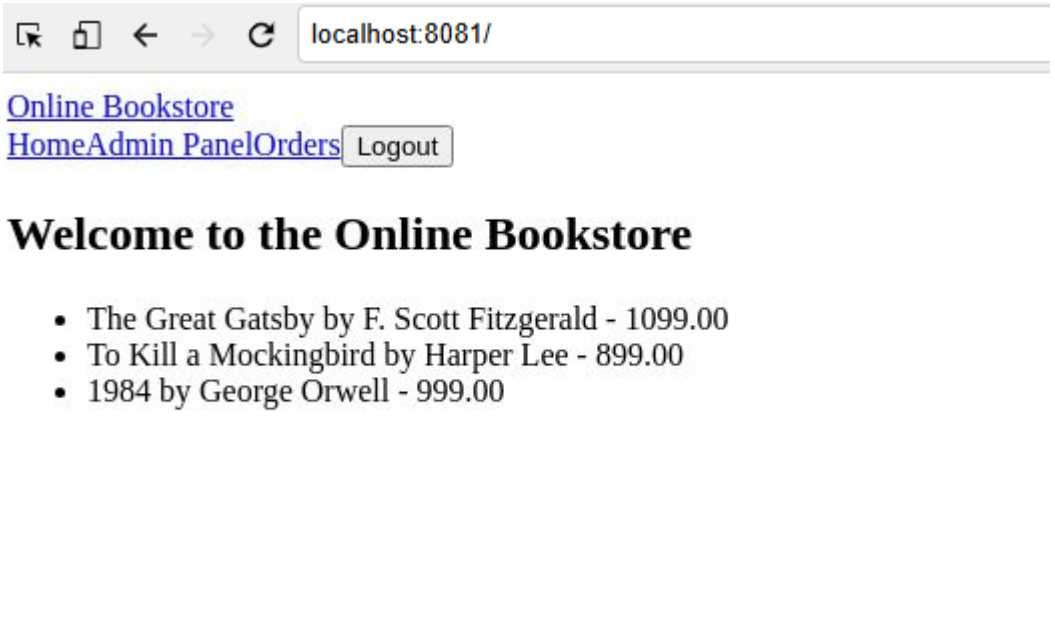
localhost:8081/login
Online Bookstore
HomeLogin
Login
Username:
Password:
Login


localhost:8081/login
Online Bookstore
HomeLogin
Login
Invalid username or password
Username: shi@s.com
Password:
Login

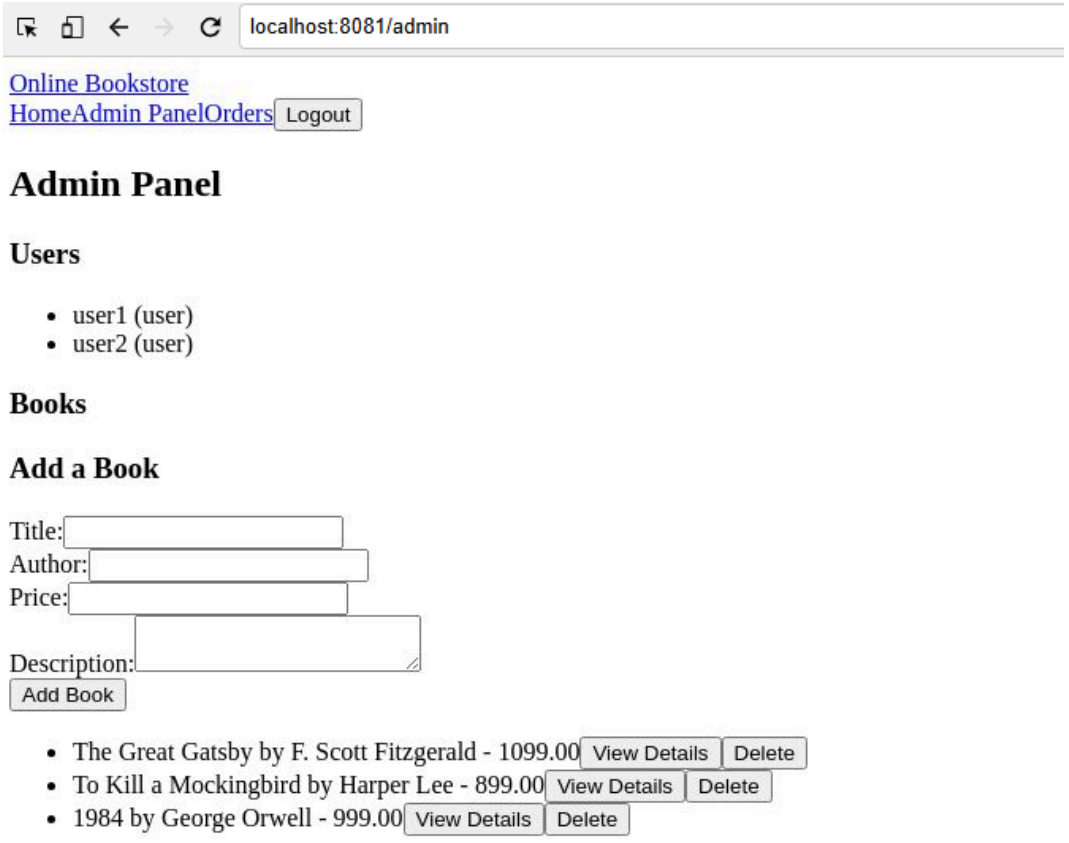
localhost:8081/login
Online Bookstore
HomeLogin
Login
Username: admin
Password:
Login

3.2 Admin Page

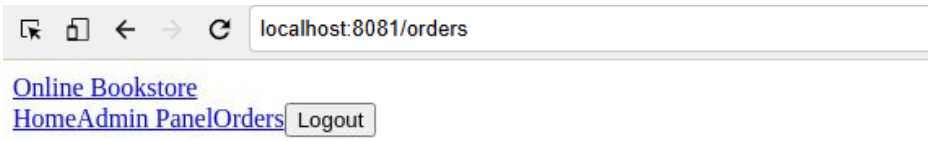
***** Admin Home Page*****

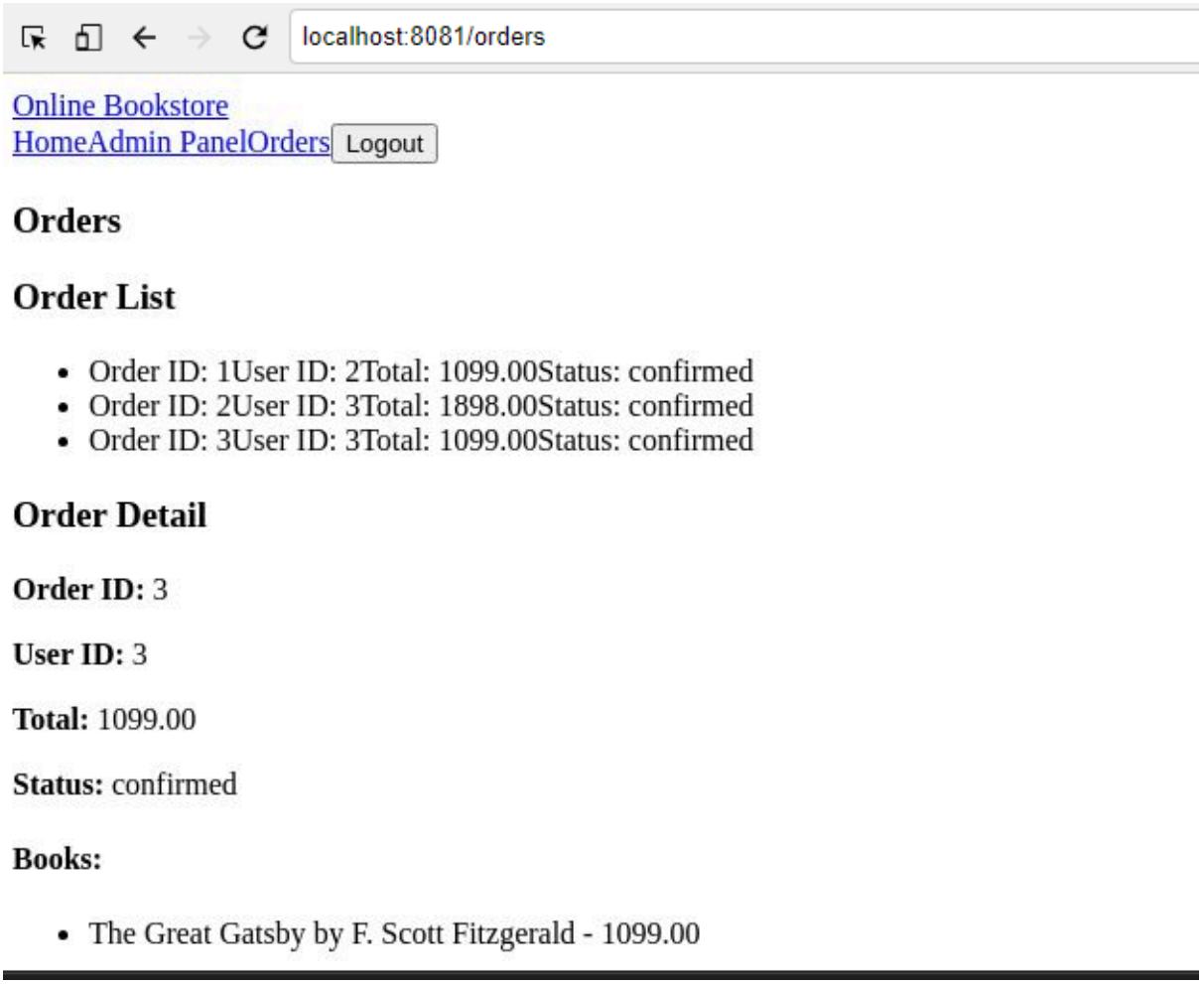


***** Admin Panel Page*****

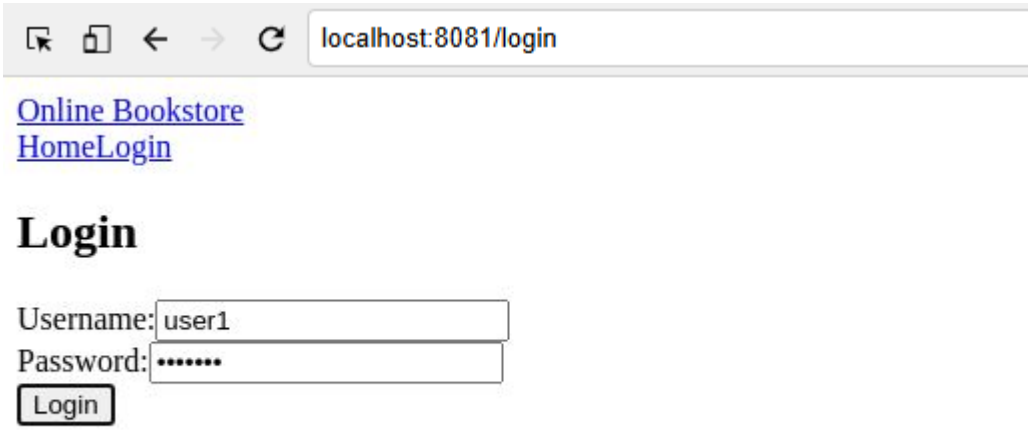


***** Admin Order Page*****

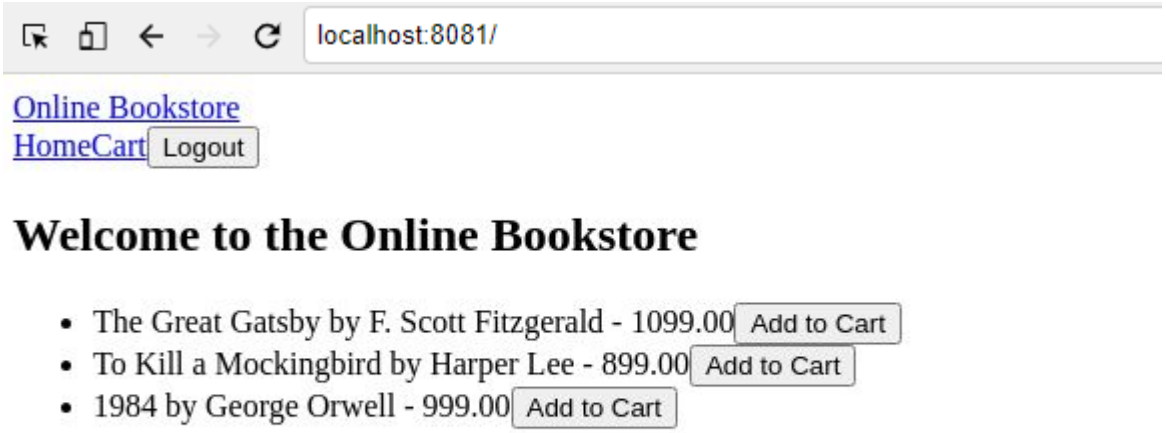




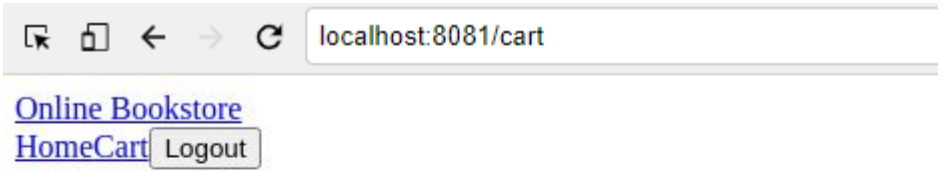
3.3 User Page



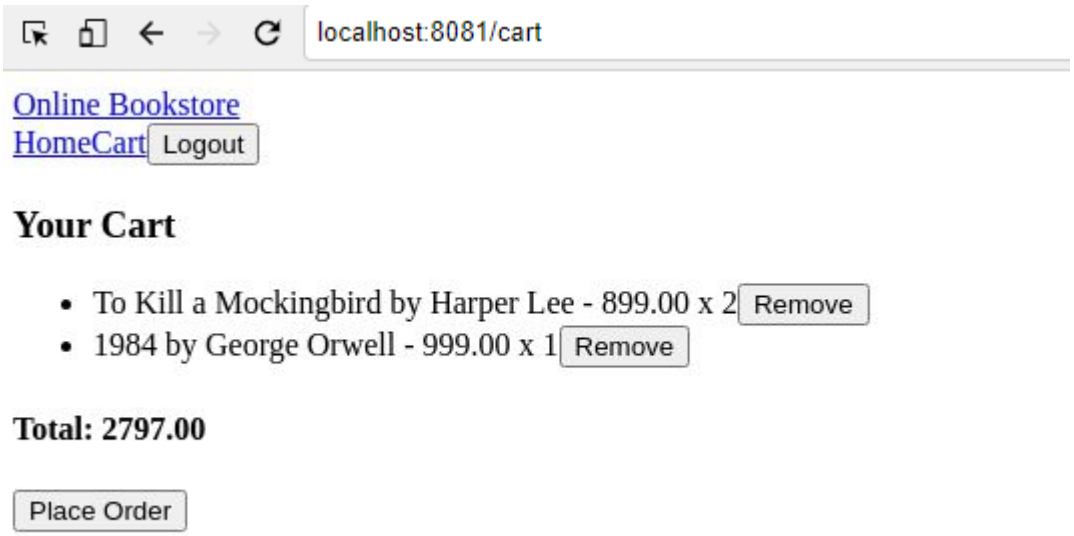
***** User Home Page*****



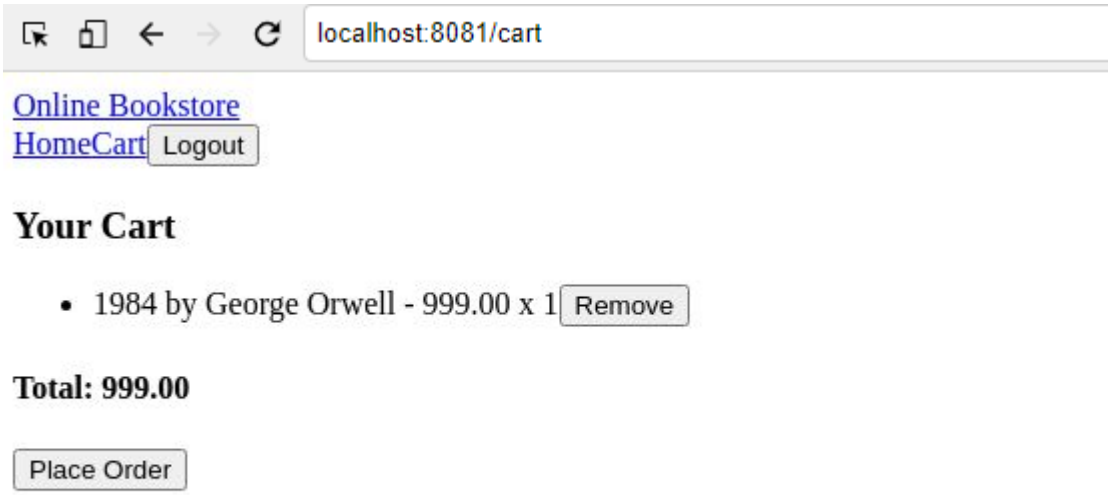
***** User Cart Page*****



***** After adding Books to Cart*****



***** After removing a Book from Cart*****



4 BUSINESS-REQUIREMENT:

As an application developer, develop the Book Store (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Welcome Page	As a user I should be able to visit the welcome page as default page. Acceptance criteria: 1. There should be 3 routes/links: ● **Online Bookstore:** When clicking this link, it should display the title "Welcome to the Online Bookstore". ● **Home:** When clicking this link, it should display the title "Welcome to the Online Bookstore" along with the list of book details, , where it should display as: <book name> by <author> - <price>. Three books are already added for reference. ● **Login:** When clicking this link, it should navigate to the login page. **** Kindly refer to the screenshots for any clarifications. ****
US_02	Login Page	As a user, I should be able to access the login page to log into the system. Acceptance criteria: 1. Users can access the login page by clicking the Login link in the menu. 2. Login page should also contain 3 routes/links: ● **Online Bookstore** ● **Home** ● **Login** 3. The login page should have the title as "Login". 4. The login page should have fields for entering a username and password. 5. The system should validate the user credentials upon submission and provide appropriate feedback: ● If the credentials are wrong, it should display "Invalid username or password."

		• Both fields are mandatory. If either field is not filled, an error message should be displayed indicating that the fields are required. 6. Fake REST APIs for logging in as a user and an admin are provided and should be used, as specified in the **db.json** file. 7. The login page should have a Login button to submit the login credentials. 8. After successful login, the user should be redirected to their respective home page (user or admin). **** Kindly refer to the screenshots for any clarifications. ****
US_03	Admin Page	As an admin, I should be able to navigate the admin page and perform various actions. Acceptance criteria: 1. There should be 4 routes/links throughout in all the respective pages until logging out: • **Online Bookstore:** When clicking this link, it should display the title "Welcome to the Online Bookstore". • **Home:** When clicking this link, it should display the title "Welcome to the Online Bookstore" along with the list of book details, including the book name, author, and price. • **Admin Panel:** When clicking this link, it should redirect to the admin page. • **Orders:** When clicking this link, it should redirect to the orders page. 2. There should be a Logout button, and when clicked, it should redirect to the Login page. 3. The above mentioned 4 routes/links & logout button should be throughout all the respective pages until logging out. **** Kindly refer to the screenshots for any clarifications. ****
	Admin Panel Page	As an admin, I should be able to manage users and books from the admin panel. Acceptance criteria: 1. The Admin Panel should have the title "Admin Panel".

		2. A "Users" section should be present with a title, and below it, all the users should be listed in bullet points, e.g., user1 (user). 3. A "Books" section should be present with the title "Add a Book" to add the book with the following fields: ● Title. ● Author. ● Price. ● Description with a description box. 4. An "Add Book" button should be present. Upon successfully adding a book, it should display a "Book added successfully" message. If all fields are not filled, an error message should be displayed indicating that the fields are required. 5. At the end of the section, there should be a list of books displayed as: <book name> by <author> - <price> along with "View Details" and "Delete" buttons for each book to view/delete. **** Kindly refer to the screenshots for any clarifications. ******
	Order Page	As an admin, I should be able to view and manage orders from the orders page. Acceptance criteria: 1. The orders page should have the title "Orders". 2. An "Order List" title should be present, and below it, there should be ordered list items displayed as: ● Order ID: <order id> User ID: <user id> Total: <total amount> Status: confirmed 3. When clicking on any of the order list items, it should display below with the title "Order Detail" with the following details: ● Order ID: <order ID> ● User ID: <user ID> ● Total: <Total> ● Status: Confirmed ● Books: A list of books displayed as: <book name> by <author> - <price>

		**** Kindly refer to the screenshots for any clarifications. ****
US_04	User Page	As a user, I should be able to access the login page to log into the system. Acceptance criteria: 1. There should be 3 routes/links: ● **Online Bookstore:** When clicking this link, it should display the title "Welcome to the Online Bookstore". ● **Home:** When clicking this link, it should display the title "Welcome to the Online Bookstore" along with the list of book details, , where it should display as: <book name> by <author> - <price>. with an "Add to Cart" button alongside. ● **Cart:** When clicking this link, it should redirect to the Cart Page. 2. When clicked on the "Add to Cart" button, it should display a notification as "Book added to cart!". ● The "Add to Cart" button can be clicked as many times as needed to add that particular book quantity. 3. There should be a **Logout** button, and when clicked, it should redirect to the Login page. **** Kindly refer to the screenshots for any clarifications. ****
	Cart Page	As a user, I should be able to view and manage my cart. Acceptance criteria: 1. The Cart page should also contain 3 links: ● **Online Bookstore** ● **Home** ● **Cart** 2. There should be a Logout button, and when clicked, it should redirect to the Login page. 3. The Cart page should have the title as "Your Cart" with a list of all the added books by the user where it should display as: <book name> by <author> - <price> x <quantity> with a "Remove" button alongside.

		4. When clicked on the "Remove" button, it should remove the particular book from the cart. 5. The total should be calculated based on the total number of books and displayed as "Total: <amount>". 6. There should be a "Place Order" button, and when clicked, a notification should display "Order placed successfully!" and the cart should be emptied, showing only the "Your Cart" title. **** Kindly refer to the screenshots for any clarifications. ****

5 VALIDATIONS

- All required fields must be fulfilled with valid data.
- When logging into the system all the fields must be filled.
- When adding a book into the system all fields are mandatory to be filled.

6 CONSTRAINTS

- You should be able to press the “TAB” key and “SHIFT + TAB” to navigate from top field to bottom field and vice-versa.
- Once a user is logged in there should not be a “/login” url available until logged out.

7 MANDATORY ASSESSMENT GUIDELINES

1. **All actions like build, compile, running application, running test cases will be through Command Terminal.**
2. **To open the command terminal the test takers, need to go to**
   Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.
3. **This editor Auto Saves the code.**
4. **If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**
5. **These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.**
6. **To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.**
7. **This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.**
   Note: The application will not run in the local browser

8. **You can follow series of command to setup React environment once you are in your project-name folder:**
    a. **npm install -> Will install all dependencies -> takes 10 to 15 min**
    b. **npm run start -> To compile and deploy the project in browser. You can press <Ctrl> key while clicking on localhost:8080/8081 to open project in browser -> takes 2 to 3 min**
    c. **npm run json-start -> As we are using a json server to mimic our db.json file as a database. So, this command is useful to start a json server.**
    d. **npm run jest -> to run all test cases and see the summary. It takes 5 to 6 min to run.**
    e. **npm run test -> to run all test cases. It is mandatory to run this command before submission of workspace -> takes 5 to 6 min**
9. **You may also run "npm run jest" while developing the solution to re-factor the code to pass the test-cases.**
10. **Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.**
11. **You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.**